DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 1.28

WELDING INSPECTION REPORT

Resident Engineer: Casey, William
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: WIR-027785
Date Inspected: 13-Jun-2012

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: American Bridge/Fluor Enterprises, a JV

OSM Arrival Time: 700
OSM Departure Time: 1730
Location: Job Site

CWI Name:	See Below			**CWI Present:**	☑ Yes	☐ No	
Inspected CWI report:	☐ Yes	☑ No	☐ N/A	**Rod Oven in Use:**	☑ Yes	☐ No	☐ N/A
Electrode to specification:	☑ Yes	☐ No	☐ N/A	**Weld Procedures Followed:**	☑ Yes	☐ No	☐ N/A
Qualified Welders:	☑ Yes	☐ No	☐ N/A	**Verified Joint Fit-up:**	☑ Yes	☐ No	☐ N/A
Approved Drawings:	☑ Yes	☐ No	☐ N/A	**Approved WPS:**	☑ Yes	☐ No	☐ N/A
				Delayed / Cancelled:	☐ Yes	☑ No	☐ N/A

Bridge No: 34-0006
Component: OBG/Tower

Summary of Items Observed:

At the start of the shift this Quality Assurance Lead Inspector (QAI) traveled to the SAS project site and observed the work and the inspection performed by American Bridge/Fluor Enterprises (AB/F) Quality Control (QC) personnel. The observations and inspections were performed as noted below:

A). This Quality Assurance Lead Inspector (QALI) assigned the QA Inspectors to the following, but not limited to the work station(s) listed, to observe the welding and the QC inspection of the following:

Joselito Lizardo-OBG E13 Drop-In Panels (Observation of welding, QC inspection and testing of structural steel floor beams) and OBG W13 Drop-In Panel (Observation of welding, QC inspection and testing of panel splices), FW Spencer (Observation of welding and QC inspection of mechanical piping) and QA/VT & MPT verification.

Will Clifford-Tower Shear Plates, ESW "E" and "F" (Performed investigative excavation, documentation and observed QC inspection and testing of transverse and longitudinal indications). Issue of excavation at ESW "E". See QALI Summary in regards to this issue.

Doug Frey-Tower Shear Plates, ESW "T"-(Observation of repair welding, QC inspection and testing)and ESW "F" (Observation of excavation).

Rodney Patterson-OBG E13 Drop-In Panel (Observation of production welding, repair welding, QC inspection and testing of structural steel deck beams and panel deck field splices).

Matt Daggett-Tower CCO # 201(Observation of welding and QC inspection of the padeyes to the tower shaft skin plates).

NOTE: See QA daily Weld Inspection Reports (WIR) and NDE reports for additional information and details.

Quality Assurance Lead Inspector (QALI) Summary

This QA Lead Inspector (QALI) observed the QA Inspector's Joselito Lizardo, William Clifford, Doug Frey, Rodney Patterson and Matt Daggett monitor the work performed by the QC inspectors at random intervals and also observed the QA Inspectors verify the welding parameters, the minimum preheat and the maximum interpass temperatures for compliance with the contract specifications. The QAI's utilized a Fluke 337 clamp meter to measure the electrical welding parameters, Tempil Heat Indicators and/or a Fluke 63 IR Thermometer for verifying the preheat and interpass temperatures. At the conclusion of the shift, this QA Lead Inspector discussed and reviewed the work performed by the QAI's in regards to the various observations and the verifications of the WPS's, consumables, welding parameters, preheat and interpass temperatures. The QAI observations of the QC inspection and verification of the welding parameters performed on this date appeared to comply with the contract specifications and one (1) issues was noted.

Issue:

QAI, William Clifford, informed this QALI that during the excavation of the transverse indications located at ESW "E" the welder proceeded to remove the indications utilizing the Air Carbon Arc (ACA) method. This task was performed after Mr. Clifford requested that remaining removal process be accomplished utilizing the grinding method. This QALI contacted QA Supervisor, William Levell, to discuss this issue and in conclusion Mr. Levell decided that a Non Conformance Report (NCR), TL-015 and an Incident Report (IR) was required. Mr. Clifford was informed by this QALI to generate above mentioned documentation. For additional information see Mr. Clifford's Weld Inspection Report (WIR) for this date.

This QALI continued the daily review of field inspection reports and update of the field document control tracking records regarding the Orthotropic Box Girders (OBG, Longitudinal and Transverse "A" Deck Stiffeners, Deck Access Holes and the Tower Shear plates). Also, this QALI performed survey and prepared update documentation of the East and West OBG.

Summary of Conversations:

There were general conversations with Quality Control Lead Inspector, Bonifacio Daquinag, Jr., at the start of the shift regarding the location of welding, inspection personnel scheduled for this shift.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Nina Choy 510-385-5910, who represents the Office of Structural Materials for your project.

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

Inspected By:	Reyes,Danny	Quality Assurance Inspector
Reviewed By:	Levell,Bill	QA Reviewer